

UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspio.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/734,601	12/12/2003	Gill Pratt	600a-001	1624
75	590 12/12/2006	EXAMINER		
WARD & OL	IVO	NGUYEN, TU X		
708 Third Avenue			ART UNIT	PAPER NUMBER
New York, NY	10017		FAFER NOMBER	
			2618	
		DATE MAILED: 12/12/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/734,601	PRATT ET AL.				
		Examiner	Art Unit				
		Tu X. Nguyen	2618				
	The MAILING DATE of this communication app						
Period fo			•				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)[\]	Responsive to communication(s) filed on 29 Se	entember 2006					
		action is non-final.					
	<i>'—</i>		secution as to the merits is				
-,-	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4) 🛛	Claim(s) 1-7 and 15-22 is/are pending in the ap	polication.					
	4a) Of the above claim(s) <u>8-14</u> is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
6)⊠	Claim(s) 1-7 and 15-22 is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restriction and/or	election requirement.					
Applicati	on Papers						
9) 🔲 🤈	The specification is objected to by the Examine	•					
10)🛛	The drawing(s) filed on <u>12/12/03</u> is/are: a)⊠ ad	ccepted or b) objected to by the	e Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11) 🗌 .	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority u	nder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	 Certified copies of the priority documents Certified copies of the priority documents 		an Na				
 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 							
	application from the International Bureau (PCT Rule 17.2(a)).						
* S	* See the attached detailed Office action for a list of the certified copies not received.						
and the second of the second o							
Attachment	(c)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
	i) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:						
0) Outer:							

Application/Control Number: 10/734,601

Art Unit: 2618

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, 7, 15-19, and 21-22, are rejected under 35 U.S.C. 102(e) as being anticipated by Gainey et al. (US Pub. 20040157551).

Regarding claim 1, Gainey et al. disclose a method of routing a wireless signal between two points, said method comprising the steps of:

transmitting a wireless signal from an originating transmitter (see fig.1, element 110);

receiving said wireless signal at a first set of repeating transceivers (see fig.1, element 100-1, see par.031, it is considered that at least another the repeater is placed in the building to relay signals to the final destination); in each said repeating transceiver,

delaying said wireless signal by at least one predetermined delay and re-transmitting said wireless signal (see par 020); and

receiving said re-transmitted wireless signals at a destination receiver (see par.031-32).

Regarding claim 2, Gainey et al. disclose the signal received at each said repeating transceiver is mixed to an intermediate frequency before said re-transmitting (see par.039, 049-050).

Application/Control Number: 10/734,601

Art Unit: 2618

Regarding claims 3 and 18, Gainey et al. disclose the signal received at each said repeating transceiver is digitized before said re-transmitting (see fig.3, elements 380,380).

Regarding claims 4 and 19, Gainey et al. disclose the signal received at each said repeating transceiver is processed through an FIR filter before said re-transmitting (see fig.3, elements 376).

Regarding claims 6 and 21, Gainey et al. disclose the signal received at each said repeating transceiver is up-shifted in frequency before said re-transmitting (see par.049-50).

Regarding claims 7 and 22, Gainey et al. disclose said predetermined delay is programmable (see par.046).

Regarding claim 15, Gainey et al. disclose a transceiver for use in a system for dynamically routing wireless signals, said transceiver comprising:

means for receiving a wireless signal (see fig.1, element 100-1, and par.031);
means for modulating said wireless signal, said modulating means coupled to said
receiving means (see par.051);

means for digitizing said wireless signal, said digitizing means coupled to said modulating means (see fig.3, element 380);

means for delaying transmission of said wireless signal, said delaying means coupled to said digitizing means (see par.020);

means for amplifying said wireless signal, said amplifying means coupled to said delaying means (see figt.3, element PA325); and

means for transmitting said wireless signal, said transmitting means coupled to said amplifying means (see par.031-032).

Application/Control Number: 10/734,601

Art Unit: 2618

Regarding claim 16, Gainey et al. disclose a method of routing a wireless signal between two points, said method comprising the steps of:

transmitting a wireless signal as a plurality of wireless signals (see fig.1, element 110);
receiving said plurality of wireless signals at a repeating transceiver as a received
plurality of wireless signals (see fig.1, element 100-1, see par.031, it is considered that at least
another the repeater is placed in the building to relay signals to the final destination);

in said repeating transceiver, delaying each of said plurality of wireless signals by a separately predetermined delay to produce a set of delayed wireless signals (see par.020); combining said delayed wireless signals into a reconstituted wireless signal (see par.051); and re-transmitting said reconstituted wireless signal (see par.032).

Regarding claim 17, Gainey et al. disclose each of said received plurality of wireless signals is mixed to an intermediate frequency before being delayed by said separately predetermined delay (see par.042).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5 and 20, are rejected under 35 U.S.C. 103(a) as being unpatentable over Gainey et al. (US Pub. 20040157551) in view of Seo et al. (US Pub. 2400/0203542).

Regarding claims 5 and 20, Gainey et al. fail to disclose an analog signal conversion before receiver-transmitting.

Seo et al. disclose an analog signal conversion before receiver-transmitting (see fig.3, element 307). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Gainey et al. with the above teaching of Seo et al. in order to provide a converter digital to analog before transmission.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed Tu Nguyen whose telephone number is 571-272-7883.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

December 8, 2006